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MIT(CS)–101/CEGCS–01

MCA/MSCCS/CEGCS IIIrd/Ist Semester Examination Dec., 2023

FUNDAMENTALS OF INFORMATION SECURITY

Time : 2 Hours]   [**Max. Marks :** 70

Note **:–** This paper is of Seventy (70) marks divided into two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given there in. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.***

Section–A

(Long Answer Type Questions)   2×19=38

Note **:–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Discuss in detail about various types of Security attacks with neat diagrams.

2. What is internet ? Explain type of internet. Explain ip addressing in details.

3. What is e-commerce ? Discuss e-commerce models in detail. Name some of the famous e-commerce website.

4. What is information security ? How is information security characterized in the Standard ?

5. What is a digital certificate ? What is the difference between identification, authentication and authorization ?

Section–B

(Short Answer Type Questions)   4×8=32

Note :– Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Differentiate between digital signatures and ink on paper signature.

2. Define Steganography. Write any *five* differnece between steganography and cryptography.

3. What is Cyberstalking ? Explain with example. Discuss prevention tips from cyberslatking.

4. Why was IT Act, 2000 amended in 2008 ? What are the objects of IT Act.

5. Discuss any *two* of the following :

   (i) Data Diddling

   (ii) Salami attack

   (iii) Cyber squatting

   (iv) Denial of secure attack

6. Discuss the addressing scheme in the interest in detail.

7. Differentiate between IPV4 and IPV6.

8. Discuss Unicast, Broadcast, multicast and any cast with example of each.

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